

# SATELLITE PRO 490XCDT SERIES Product Specifications

**490XCDT: 4.0 billion bytes: PA1270U-T2C**

**490XCDT-NT: 4.0 billion bytes: PA1270U-T2N**

<b>PROCESSOR (All Models)</b>		Intel Mobile PentiumII® 266MHz (1.7v/1.8v/3.3v)	
Integrated Coprocessor		Yes	
Processor Cache (L1) Capacity		32KB: (16KB code; 16KB data)	
<b>LEVEL 2 (L2) CACHE</b>		<b>Yes: 512KB Integrated into CPU</b>	
Type of cache memory		1 Mbit Pipelined Burst Synchronous SRAM (3.3v)	
Access Time		8 ns	
Data Bus Width		64 bit	
Data Bus Speed		66 MHz	
<b>SYSTEM ARCHITECTURE (All Models)</b>		<u>Chipset</u>	<u>Connecting Devices</u>
PCI BUS (v.2.1): (32-bit, 33 MHz)		Intel 440BX	PC Card Slots, Expansion Bus, Modem DSP, FDD, HDD, CD-ROM
PCI66: (32-bit, <b>66 MHz</b> )		Intel 440BX	Graphic Controller
ISA BUS: (16-bit, 8.3 Mhz)		N/A	BIOS, Sound chip, Keyboard controller
<b>MEMORY: 64Mbit EDO DRAM, 3.3V (All Models)</b>			
Standard		32 MB	
Maximum		160 MB	
Speed		60ns	
Hyper Page mode memory access		Yes	
Data/Address Bus width		64-bit/32-bit	
Local Bus Clock Speed		66 MHz	
<b>BIOS (All Models)</b>		(512KB: 4Mbit FLASH EPROM)	
Supported standards		APM (v.1.2); VESA (v2.0); DPMS, DCC2, DMI, PCI , PnP 1.0a, ACPI (v.1.0)	
<b>DISPLAY (All Models)</b>			
Type		TFT Active Matrix Color	
Size		13.3” Diagonal (1,024 x 768 resolution)	
Dot Pitch		.3075mm x .3075mm	
Contrast Ratio		100:1 (min)	
<b>VIDEO (All Models)</b>			
Memory: 8Mbit <b>SGRAM</b> , 3.3V		2 MB	
Speed		83 MHz	
Controller Chip		S3 Virge MX 3D (= 86C260)	
Data Bus Width		64-bit	
PCI66 Bus Architecture w/burst mode		Yes	
Bus Clock Speed		<b>66 MHz</b>	
Graphics Accelerator:		Yes with 64-bit BitBLT support	
DirectDraw, Direct3D, H/W Cursor		Yes	
Digital Video Accelerator:		Yes	
YUV-to-RGB color space conversion		Yes	
Scaling/Interpolation		Yes	
Zoomed Video Port Support		Yes	
DirectMPEG		Yes	
DirectVideo support		Yes:w/Game SDK driver fr/Microsoft	
Color Palette		16.7M colors	
Internal Support	<u>Resolution</u>	<u>Colors Support</u>	
Full Screen	1024 x 768	64K colors	
Smaller Image	640 x 480	16.7M colors	
Smaller Image	800 x 600	16.7M colors	
Virtual Display Mode	1280 x 1024	256 colors	
External Support	<u>Resolution</u>	<u>Colors Support</u>	<u>Vertical Refresh Rate (Non-Interlaced)</u>
	640 x 480	16.7M colors colors	85Hz @ 64K color
	800 x 600	16.7M colors colors	85Hz @ 64K color
	1024 x 768	64K colors	60 Hz @ 64K color
	1280 x 1024	256 colors	60 Hz @ 64K color

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## STORAGE (All Models)

Removable HDD (2.5" Enhanced IDE)	4.0 billion bytes (12msec read/14msec write)
Burst Data Transfer Rate	Ultra DMA33 (33MB/sec) or PIO Mode 4 (14.0MB/sec)

## SELECT BAY DEVICES (All Models)

### Second Battery

Battery Type *Optional: Part# PA2451UR (Includes battery adapter)*

Li-Ion (10.8V, 3400mAH)

### Modular FDD (3.5" 1.44MB)

**Included/Swappable with CD-ROM**

FDD Dimensions 4.57"L x 3.8"W x .59"H

FDD Weight Weight: .29 lbs

Simultaneous FDD & CD-ROM Support

Yes: External FDD adapter included

FDD Adapter Dimensions 7.0"L x 5.5"W

FDD Adapter Weight .25 lbs

### Modular HDD (2.5" Enhanced IDE)

*Optional/Swappable with FDD*

Capacity 4.0 billion bytes (13msec)

Burst Data Transfer Rate Ultra DMA33 (33MB/sec) or PIO Mode 4 (14.0MB/sec)

### Modular CD-ROM (12.7mm Slimline)

5.25" 20X Max. speed *Installed/ For use in SelectBay only*

Weight .70 lbs

Interface .ATAPI (Enhanced IDE)

Random Access Time 135 ms @ 20X Max speed

Average Sustained Transfer Rate 3420KB/sec @ 20X Max speed; 2394KB/sec @ 14X Average speed

Supported Disc formats Red Book, Yellow Book, CD-ROM XA, CD-I Bridge (Photo-CD)

CD-I, CD-I Ready, CD-G, Multisession (Photo-CD, CD-Extra), CD-RW

## KEYBOARD (All Models)

84/86 keys, 3mm Travel Yes with Windows 95 key support

12 dedicated function keys Yes

Cursor control (8 Keys, Inverted "T") Yes

Numeric keypad (Integrated Overlay) Yes

## Integrated Pointing Device (All Models)

AccuPoint™

## EXPANSION SLOTS (All Models)

Two Stacked PC Card Slots Yes: Holds two - 5mm PC Cards Type II or one - 10.5mm PC Card Type III.

Support Standards Yes: Supports 32-bit, 3.3V PC CardBus cards *and* 16-bit, 5.0V PC card standards

Internal Memory Slot (One only) Yes

## EXPANSION PORTS (All Models)

One RJ-11 port for internal modem (supplied) Yes

One 9-Pin Serial (16550 UART compliant) Yes

One 25-Pin Parallel (ESP) Yes

One 15-Pin RGB (SVGA video) Yes

Fast Infrared port (Back only) Yes: IrDA 1.1:4Mbps compatible

One (PS/2) 101 Keyboard/Mouse port Yes: "Y" connector supported

One External Floppy Drive port Yes

Universal Serial Bus (USB) port Yes: Supports 127 devices. Throughput Rate: 12Mbps/sec.

Microphone (3.5mm mini jack, stereo) Yes

Headphone (3.5mm mini jack, stereo) Yes

Line-in (3.5mm mini jack, stereo, 2V rms) Yes

Noteworthy security lock port Yes

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<b>INTERNAL MODEM (As Listed)</b>		K56Flex /14.4 Kbps Data/Fax/Voice modem
DAA support		US/Canada and Euro/Australia
Data support ( <b>All models</b> )		
	Protocols supported	Bell-103/212A, CCITT-V.21/V.22, V.32, V.32bis, V.34, V.80
	Error correction	MNP 1-4
	Data compression	MNP 5, CCITT V.42 bis
Fax support ( <b>All models</b> )		Fax class 1
	Protocols supported	V.21 ch2, V.27 ter, V.29, V.17
Telephony Functions ( <b>Windows 95 only</b> )		
	Standard software	Ring Zero RingCentral telephony software
	Supported Functions	Speaker phone, Telephony Answering Machine, Ring Wake-up Resume Incoming Call Discrimination, Caller ID; Video conferencing
<b>NoteDock III™ Port Replicator (Optional)</b>		Part# PA2717U
(2) Type III PCI/CardBus ready PC Card slots		Yes: each slot supports one card
Supported Interfaces		Serial, USB, parallel, PS/2 keyboard, PS/2 mouse, DC in, SVGA port, lock slot , joystick/MIDI, audio line-in, line-out, headphone, microphone
<b>POWER (All models)</b>		
<b>Autosensing External AC Adapter</b>		Part # PA2450U
	Input (Voltage/Frequency)	100-240V; 50-60Hz
	Output (Voltage/Amps)	15 VDC; 3A (max)
	Power Output (Watts)	45W
Battery Type: Li-Ion (15V, 4000mAH)		Yes (one standard): Part# PA2487UR
	Battery Life: (One battery/Two batteries)	<i>Full power:</i> 2+ hrs./4 hrs. <i>Low power:</i> 2.5/5 hrs.
	Recharge Time (Computer Off/On)	2-3 hrs.(Off) /4-10 hrs.(On) --- (per one battery pack)
MaxTime® Power Management		Yes
<b>SOUND SYSTEM (All models)</b>		
	Chipsets:	Yamaha OPL3-SA3
	16-bit stereo audio playback/record	Yes
	Maximum Sampling Rate	48kHz
	FM Synthesis support	Yes
	Full duplex function	Yes
	Sound formats supported:	SoundBlaster Pro™ v.3.01, .WAV, MIDI, Windows Sound System 2.0
	3D Sound Support	Yes
	DirectSound/Direct3Dsound support	Yes: with Windows 95 Game SDK driver from Microsoft
	Built-in microphone (monoaural)	Yes
	Speaker system	Two top-mounted stereo speakers (28mm, 8 Ω)
<b>DIMENSIONS (All models)</b>		
	<b><u>Dimensions</u></b>	<b><u>Weight</u></b>
Notebook (Weights include Battery: .88 lbs.)	11.95"W x 9.4"D x 2"H	7.2 lbs. w/FDD; 7.2 lbs. w/CD-ROM
AC Adapter	4.92"L x 2.48"W x 1.0"H	.66 lbs.
Primary Battery (Standard)	6.87"L x 2.76"W x .73"H	.88 lbs.
Select Bay Battery (Optional)	4.55"L x 4.06W x .66"H	.78 lbs.
<b>BUNDLED SOFTWARE (Windows 95 models)</b>		
Windows®95; Fn-esse™, Microsoft Internet Explorer; Ring Central (modem software), Puma Intellisync97 (infrared software), Yamaha Audio Rack; Intel Indeo Video; Direct X5 driver, Mediamatics Arcade Pak; America Online, CompuServe, AT&T WorldNet, Online documentation, SystemSoft Cardworks 32-bit (on CD only)		
<b>CD's Included:</b> Windows® 95 Companion CD; Enhanced/Recovery CD		
<b>BUNDLED SOFTWARE (Windows NT models)</b>		
Windows NT 4.0; Service Pack 3.0; Yamaha OPL3-SA3 Audio Rack; Puma Intellisync 97; Microsoft Internet Explorer (3.02); SystemSoft CardWorks 32-bit; Toshiba NT 4.0 Utilities; 490CDT User's Guide and Discovery Center		
<b>CD's Included:</b> Windows NT 4.0 CD; Windows NT Service Pack 3.0		

# SATELLITE PRO 490XCDT SERIES Product Specifications

**490CDT: 4.0 billion bytes: PA1269U-T2C**

**490CDT-NT: 4.0 billion bytes: PA1269U-T2N**

## SECURITY (All models)

Hardware	Lock slot, screen blank, keyboard lock
Password	Power-on, Supervisor, & HDD password (both drives)

## WARRANTY (All models)

3 YR Parts / 1 YR. Labor

## ENVIRONMENTAL SPECIFICATIONS

	<u>Operating</u>	<u>Non-operating</u>
Temperature:	41°F (5°C) to 95°F (35°C)	-4°F (-20°C) to 149°F (65°C)
Thermal Gradient: 20° C per hour (max.)	--	--
Relative Humidity	20% to 80% non-condensing	10% to 90% non-condensing
Altitude:	-197 to 9,843ft. (-60 to 3000m)	-197 to 32,808ft. (-60 to 10,000m)
Shock:	10G; 1.5G w/CD-ROM installed	60G; 50G w/CD-ROM installed
Vibration:	0.5G; 0.25G w/CD-ROM installed	1G; 1G w/CD-ROM installed